

PATENT

Docket No.: NL000441

Customer No. 000024737

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) An image-sensing display device comprising:

an image display part including a reflective image display panel and a front-lighting means, the front-lighting means for illuminating the reflective display panel during a display mode of the image-sensing display device, the front-lighting means including a transparent light guiding plate, the light guiding plate having a lower main flat surface, an upper main flat surface that is substantially parallel to the lower main flat surface, and side surfaces, the front-lighting means further including at least one light source arranged opposite an entrance face corresponding to at least one of the side surfaces, and a side face opposite the entrance face ~~including a that is made~~ reflective face, the light guiding plate further having scattering elements, wherein light rays from the at least one source enter the light guiding plate via the at least one of the side surfaces and are totally internally reflected until reaching a scattering element, the scattering element reflecting light incident thereon in different directions, wherein a portion of the reflected light passes through the lower main flat surface and propagates to the reflective display panel and wherein a remaining portion of the reflected light propagates through the light guiding plate, wherein further substantially all the light that enters the light guiding plate via the at least one of the side surfaces is coupled out of the light guiding plate and directed towards the reflective display panel; and

an image-sensing part arranged on top of the reflective display panel of the image display part, the image-sensing part for capturing at least one image during a camera mode of the image-sensing display device, the image-sensing

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part including a two-dimensional array of photosensitive elements, wherein the front-lighting means of the image display part is arranged in front of the array of photosensitive elements on top of the reflective display panel and wherein the photosensitive elements of the image-sensing part and the reflective display panel and front-lighting means of the image display part are integrated in one module.

2. (previously presented) The image-sensing display device as claimed in claim 1, wherein the reflective display panel further comprises a transparent front plate, and further wherein the array of photosensitive elements is arranged on an underside of the transparent front plate of the reflective display panel.
3. (previously presented) The image-sensing display panel as claimed in claim 1, wherein the reflective display panel further comprises a transparent front plate, and further wherein the array of photosensitive elements is arranged on a top surface of the transparent front plate of the reflective display panel.
4. (previously presented) The image-sensing display panel as claimed in claim 1, wherein the light guiding plate includes lens means integrated in the light guiding plate.
5. (previously presented) The image-sensing display device as claimed in claim 1, wherein the reflective display panel includes lens means arranged on a transparent front plate of the reflective display panel.
6. (previously presented) The image-sensing display device as claimed in claim 1, further wherein the array of photosensitive elements includes a CCD sensor.

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7. (previously presented) The image-sensing display device as claimed in claim 1, further wherein the array of photosensitive elements includes a C-MOS image sensor.
8. (previously presented) The image-sensing display device as claimed in claim 1, further wherein the display panel includes an LCD panel.
9. (previously presented) The image-sensing display device as claimed in claim 8, further wherein the LCD panel includes a cholesteric liquid crystal LCD panel.
10. (previously presented) An image-sensing display device as claimed in claim 8, further wherein the LCD panel includes a twisted nematic liquid crystal LCD panel.
11. (previously presented) An image communication apparatus comprising image display means, the image display means including an image display panel, and camera means, the camera means including an image sensor, wherein the image display panel and the image sensor comprise an image-sensing display device as claimed in claim 1.
12. (previously presented) A videophone apparatus comprising a voice communication part and an image communication part, wherein the image communication part comprises image display means, the image display means including an image display panel, and camera means, the camera means including an image sensor, wherein the image display panel and the image sensor comprise an image-sensing display device as claimed in claim 1.

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13. (original) A videophone apparatus as claimed in claim 12 constructed as a mobile apparatus.
14. (previously presented) An image-sensing display device as claimed in claim 1, further comprising a separate lens element mounted to a front of the image-sensing display device, the separate lens element including a Fresnel lens, the Fresnel lens having a lens structure that includes at least one of a) an amplitude structure having a transparent central circular portion and a number of alternating non-transparent and transparent rings, the width and mutual spacing of which decreases from the center to the periphery and b) a phase structure, the phase structure having rings which introduce alternately a first phase shift and a second phase shift in a beam portion passing through the rings.